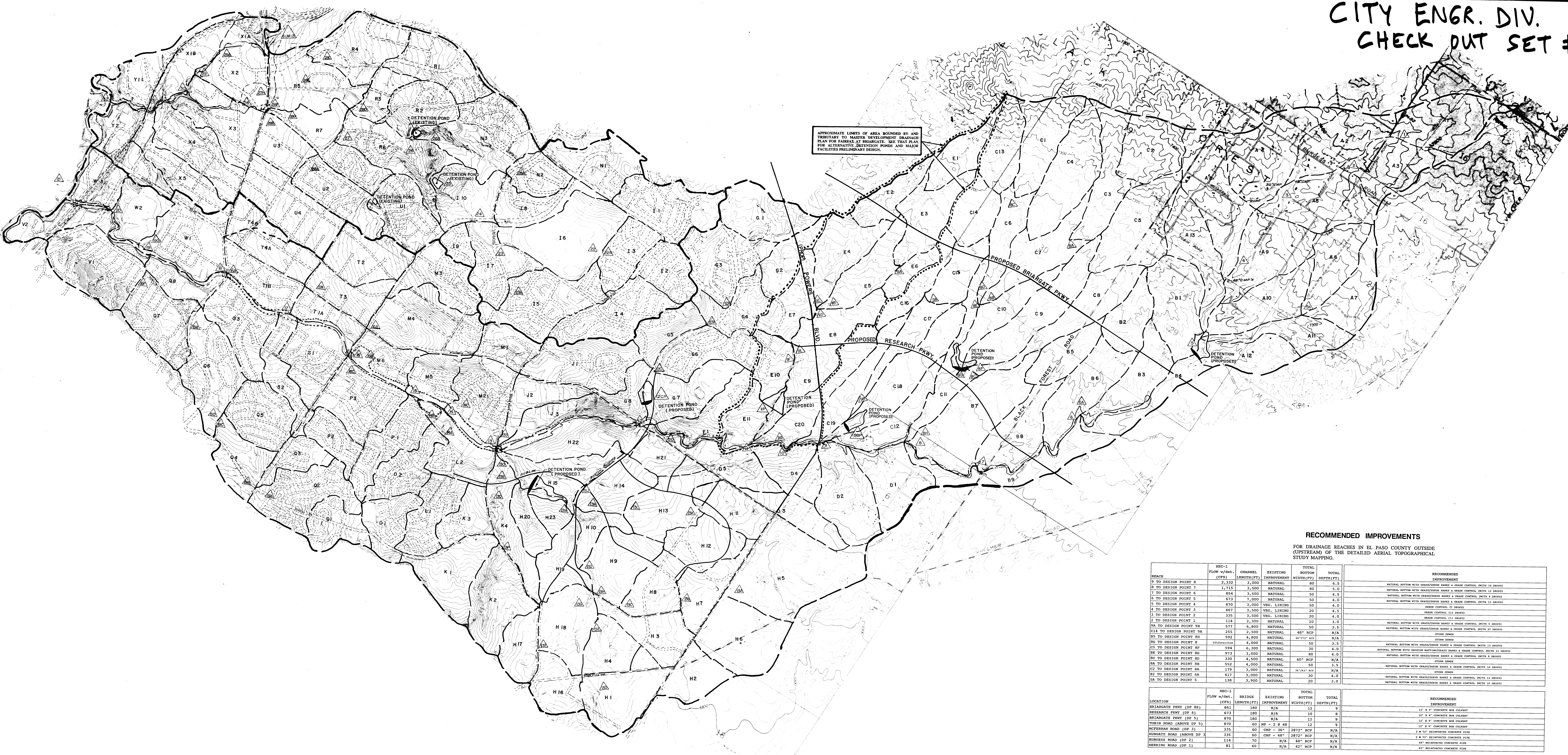


CITY ENGR. DIV.
CHECK OUT SET #4



RECOMMENDED IMPROVEMENTS

FOR DRAINAGE REACHES IN EL PASO COUNTY OUTSIDE
(UPSTREAM) OF THE DETAILED AERIAL TOPOGRAPHICAL
STUDY MAPING.

REACH	FLOW W/GR-1 (CFS)	CHANNEL LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL		RECOMMENDED IMPROVEMENT
				WIDTH (FT)	DEPTH (FT)	
9 TO DESIGN POINT 8	2,332	3,000	NATURAL	80	6.3	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
8 TO DESIGN POINT 7	3,715	3,500	NATURAL	80	5.3	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
7 TO DESIGN POINT 6	854	3,500	NATURAL	50	4.5	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
6 TO DESIGN POINT 5	673	7,000	NATURAL	50	4.0	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
5 TO DESIGN POINT 4	870	3,000	VEG. LIVING	50	4.0	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
4 TO DESIGN POINT 3	467	3,500	VEG. LIVING	20	4.5	GRADE CONTROL (17 DROPPS)
3 TO DESIGN POINT 2	335	3,500	VEG. LIVING	20	4.0	GRADE CONTROL (17 DROPPS)
2 TO DESIGN POINT 1	118	3,500	NATURAL	20	3.5	GRADE CONTROL (17 DROPPS)
1A TO DESIGN POINT 9A	577	6,800	NATURAL	50	3.5	NATURAL BOTTOM WITH GRASS/FOREST BANKS & GRADE CONTROL (DITCH 18 DROPPS)
1B TO DESIGN POINT 9A	255	2,500	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1C TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1D TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1E TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1F TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1G TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1H TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1I TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1J TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1K TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1L TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1M TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1N TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1O TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1P TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1Q TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1R TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1S TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1T TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1U TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1V TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1W TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1X TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1Y TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)
1Z TO DESIGN POINT 9A	592	4,800	NATURAL	48" RCP	N/A	GRADE CONTROL (17 DROPPS)

BASED ON THE REACHES/CULVERTS LISTED ON THIS SHEET, APPROXIMATELY 113
ACRES OF ENVIRONMENTALLY CLASSIFIED AREAS WILL BE DISTURBED OR DESTROYED
AND REQUIRE MITIGATION.

LOCATION	FLOW W/GR-1 (CFS)	EXISTING IMPROVEMENT	PROPOSED IMPROVEMENT
CITY BRIDGES			
RESEARCH PKWY (DP 6)	3,715	N/A	TRIPLE 14" X 6" CMC
BRIARGATE PKWY (DP 5)	870	N/A	TRIPLE 14" X 6" CMC
COTTONWOOD CREEK (DP 3)	335	N/A	TRIPLE 14" X 6" CMC
BLACK FOREST ROAD (DP 7)	854	BATHING, 7'-40", 8'-24", 2'-17"	REPLACE FOR 5 LANE ARTERIAL, 70' X 110'

LEGEND:

- AI SUB-BASIN DESIGNATION
- △ DESIGN POINT
- MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY

SHEET INDEX:

MAPPING:

ENGINEER:

URS
CONSULTANTS
MAKING TECHNOLOGY WORK
1040 SOUTH EIGHTH STREET
COLORADO SPRINGS, CO. 80906
(719) 634-6669

PROJECT:

COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY
OVERALL BASIN MAP
SCALE: 1"=1000'
FIGURE 2

CONTOUR INTERVAL=2'
SHEET OF

